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| 09/858,312 | 05/15/2001 | Paul K. Mui | 10007045-1 | 1482 |

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HEWLETT-PACKARD COMPANY
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EXAMINER

WORKU, NEGUSSIE

ART UNIT PAPER NUMBER

2626

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/858,312

Applicant(s)

MUI ET AL.

Examiner

Negussie Worku

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 May 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Muramatsu (USP 5452108).

With respect to claim 1, Muramatsu discloses a method of scanning an object (image reading apparatus 1 reads an original (object) as shown in fig 1 and 2) including the steps of: moving a first scan line relative to the object in a top to bottom scan direction (a scanner 19 of fig 1 traveling under a platen glass 18 relative to the object or original to be scanned, see col.2, lines 58-60); indexing a plurality of cross linear samplings in a forward sequential order (a sensor which can travel in a reciprocative manner, for reading out an image of the original on the holder line by line [indexing of sequential order] on a forward route and backward route, see col.1, lines 45-50 and col.2, line 62-64); moving a second scan-line relative to the object in a bottom to top scan direction, (direction reversing means M2 (motor) normally rotates, and scanner 19

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of fig 1 initiates scanning for reading to the left direction (second scan line relative to the object) as shown in fig 1 and discussed in col.3, lines 54-57); and indexing a plurality of cross linear samplings in a reverse sequential order,(reading out an image of the original on the holder 18 of fig 1 line by line [indexing of sequential order] on a forward route and backward route, see col.1, lines 45-50 and col.2, line 62-64).

With respect to claim 2, Muramatsu discloses the method of scanning an image (image reading apparatus 1 reads an original (object) as shown in fig 1 and 2) wherein the object (original placed on platen 18 of fig 1) further comprises an image bearing media (original placed on platen 18 of fig 1 is to be scanned by scanner as image bearing media, shown in fig 1 and 2).

With respect to claim 3, Muramatsu discloses a method of scanning image bearing media (image reading apparatus 1 reads an original (image bearing media) as shown in fig 1 and 2) including the steps of: scanning a first image bearing media in a top to bottom scan direction, (a scanner 19 of fig 1 traveling under a platen glass 18 relative to the object or original to be scanned, see col.2, lines 58-60); indexing a plurality of cross linear samplings in a forward sequential order, (an image or original is read in a back and forth or left to right direction which is in a sequential order of line by line, see col.1, lines 45-50 and col.2, line 62-64) ; scanning a second image bearing media in a bottom to top scan direction (plurality of originals can be read by scanner 19

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of fig 1); and indexing a plurality of cross linear samplings in a reverse sequential order, see (col.1, lines 45-50 and col.2, line 62-64).

With respect to claim 4, Muramatsu discloses a method of scanning image bearing media (image reading apparatus 1 reads an original (image bearing media) as shown in fig 1 and 2) including the steps of: feeding the first image bearing media from an automatic document feeding device to the scanning device (automatic document feeding device (ADFD) 500 of fig 1 for transporting original to the scanning position of the scanner 19 of fig 1, see col.3, lines 29-35); and feeding the second image bearing media from the automatic document feeding device to the scanning device, see (col.3, lines 33-35).

With respect to claim 5, Muramatsu discloses a method of scanning image bearing media a flatbed scanning device (image reading apparatus 1, having a flatbed platen 18 of fig 1 which support original) including the steps of: feeding a first image bearing media (original document or object subject to be read) from an automatic document feeding device (ADF 500 of fig 1); scanning the first image bearing media in a top to bottom scan direction (reading one of the plurality of image bearing media (original) in a reciprocating movement of the scanner 19 of fig 1, see col.3, lines 53-55); indexing a plurality of cross linear samplings in a forward sequential order, (the scanner 19 reads the image in line by line scanning method , see (col.1, lines 45—50); feeding a

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second image bearing media from the automatic document feeding device (ADF 500 of fig 1, feed the original to platen 18 of fig 1 relative to the scanner 19 of fig 1) to the scanning device (scanner 19 of fig 1), scanning the second image bearing media in a bottom to top scan direction (left to right direction); and indexing a plurality of cross linear samplings in a reverse sequential order, (reading out an image of the original on the holder 18 of fig 1 line by line [indexing of sequential order] on a forward route and backward route, see (col.1, lines 45-50 and col.2, line 62-64).

With respect to claim 6, Muramatsu discloses a method of scanning image bearing media (image reading apparatus 1 reads an original (image bearing media) as shown in fig 1) including the steps of: sensing a carriage assembly travel direction (CPU (3) 103 drives and control travel direction of the scanning system, see (col4, lines 23-25).

With respect to claim 7, Muramatsu discloses a method of scanning image bearing media (image reading apparatus 1 reads an original (image bearing media) as shown in fig 1) including the steps of: sensing a carriage assembly travel limit (CPU (3) 103 drives and control travel direction of the scanning system, see (col4, lines 23-25).

With respect to claim 8, Muramatsu discloses an optical scanning device (as shown in fig 1-2) for producing machine-readable data representative of an object

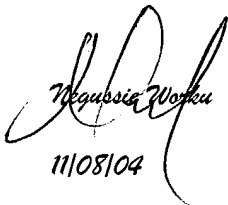
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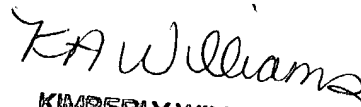
(original positioned on platen 18 of fig 1) comprising: a scanner controller (a control portion of scanner apparatus of fig 1); a transport assembly (scan motor (M2) of fig 1) connected to the scanner controller (scan controller 100 of fig 2) for moving a scanline relative to the object (original of fig 1) in a top to bottom scan direction followed by moving the scanline relative to the object in a bottom to top scan direction (CPU (2) 102 carries out the entire control of the image reader, such as scan control by driving of scanner motor M2 for moving scan line relative to the object, see col.4, lines 65-68, and col.5, line 1 and 2); an imaging assembly (scanner of fig 1) connected to the scanner controller (controller 100 of fig 2) and or in successive sampling intervals for generating a plurality of cross linear samplings image data representative of the object, see col.1, lines 45-50); an automatic document feeder (500 of fig 1) connected to the scanner control (100 of fig 2) operable in response to the scanner controller (CPU (3) 102 of fig 2), a processing device (20 of fig 2) responsive to a scan direction travel limit for selectively indexing a plurality of cross linear samplings in a forward sequential order direction (CPU (2) 102 carries out the entire control of the image reader, such as scan control by driving of scanner motor M2 for moving scan line relative to the object, see col.4, lines 65-68, and col.5, line 1 and 2); and a processing device (20 of fig 2) responsive to a scan direction travel limit for selectively indexing a plurality of cross linear samplings in a reverse sequential order direction (CPU (2) 102 carries out the entire control of the image reader, such as scan control by driving of scanner motor M2 for moving scan line relative to the object, including scanning line by line (see col.4, lines 65-68, and col.5, line 1 and 2).

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Negussie Worku whose telephone number is 305-5441. The examiner can normally be reached on 7am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams can be reached on 703-305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


11/08/04


KIMBERLY WILLIAMS
SUPERVISORY PATENT EXAMINER